

Remarks/Arguments

Claims 1, 3, 5, and 12-20 have been amended.

Rejections under 35 U.S.C. § 102

In the Office Action, claims 1-3, 4, 6-14, 15, and 17-20 were rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Application Publication No. 2001/0013924 to Yokoyama et al. (hereinafter *Yokoyama*). Applicants respectfully request reconsideration of this rejection for at least the following reasons.

Claims 1, 12, and 19 have been amended and now recites the features “an active cooling arrangement thermally coupled to the solid state light source to provide more than one level of cooling to the solid state light source” (emphasis added). *Yokokaya* does not teach such features. Instead, *Yokoyama* teaches, in Figures 27 and 29, a cooling switch 114 coupled to a temperature sensor 110 and a cooling element 107. The cooling element is turned either “on” or “off”, depending on the condition that the switch 114 is “open” or close”. For example, when the cooling switch 114 is opened, the supply of power to the electronic cooling element 107 is stopped and so terminates cooling (see paragraphs [0177] and [0197]). Therefore, *Yokoyama* only teaches a cooling arrangement that has one level of cooling when it is turned on. *Yokoyama* does not disclose an active cooling arrangement to provide more than one level of cooling to the solid state light source. For at least these reasons, claims 1, 12, and 19 are patentable over *Yokoyama*.

Dependent claims 2-4, 6-11, 13-15, 17-18, and 20 depend from independent claims 1, 12, and 19, incorporating their features. Thus, for the same reasons provided above and by virtue of their dependency, claims 2-4, 6-11, 13-15, 17-18, and 20 are also patentable over *Yokoyama*.

Rejections under 35 U.S.C. § 103

Claims 5 and 16 were rejected under 35 U.S.C. 103(a) as being unpatentable over *Yokoyama* in view of U.S. Patent Application Publication No. 2005/0152146 to Owen et al. (hereinafter *Owen*). Applicants respectfully request reconsideration of this rejection for at least the following reasons.

In rejecting claims 5 and 16, the Examiner appears to allege that although *Yokoyama* does not teach “a cooling pipe and the controller controls a flow rate of the cooling pipe, varying an amount of fluid flow pass the solid state light source” as recited in claims 5 and 16, such features are taught in *Owen* and that it would have been obvious to one of ordinary skill in the art to have combine the teachings of *Yokoyama* with the teachings of *Owen*. In particular, the Examiner in regards to what *Owen* teaches asserts that “the amount of fluid is considered to be varied when “controller” 36 or 145 turns on the heat pipes, heat pipe, fluid tube, or “pipe” 114, allowing the fluid to pass through the pipe and turns off the pipe, not allowing fluid to pass through the pipe.” Therefore, like *Yokoyama*, *Owen* only teaches a cooling arrangement that can be either turned “on” or “off”.

However, claims 5 and 16 have been amended to include the features “varying an amount of fluid flowing pass the solid state light source from no fluid flow to a selective one of multiple levels of fluid flows”(emphasis added). Such features are not taught or even suggested in either *Yokoyama* and/or *Owen*. For at least this reason, claims 5 and 16 are patentable over *Yokoyama* in view of *Owen*.

Conclusion


In view of the foregoing, the Applicants respectfully submit that claims 1-20 are in a condition for allowance. Early issuance of Notice of Allowance is respectfully requested.

If the Examiner has any questions, she is invited to contact the undersigned at 503-796-2099.

The Commissioner is hereby authorized to charge shortages or credit overpayments to Deposit Account No. 500393.

Respectfully submitted,

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